

Sedgwick County

Estimated Economic Contribution of Agriculture, Food, and Food Processing Sectors

6/28/2019

Using the most recent IMPLAN data available (2017) adjusted for 2019, 40 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Sedgwick County economy.¹

These 40 sectors have a total direct output of approximately **\$1.86 billion** and support **6,720 jobs** in Sedgwick County. Running the model for all 40 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Sedgwick County Economy					
Contribution Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵
Direct Effect	6720.3	2.04%	\$523,388,546	1.73%	\$1,855,295,635
Indirect Effect	2015.1	0.61%	\$212,337,311	0.70%	\$365,989,092
Induced Effect	2489.0	0.76%	\$187,729,705	0.62%	\$329,369,166
Total Effect	11224.3	3.41%	\$923,455,562	3.05%	\$2,550,653,893

As shown in the above table, agriculture, food, and food processing sectors support **11,224 jobs**, or **3.41%** of the entire workforce in the county.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 40 agriculture, food, and food processing sectors is approximately **\$923.5 million**, or **3.05% of the GRP**.

The following tables document the top industries affected by employment and output, as well as a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting:

<https://implanhelp.zendesk.com/hc/en-us/articles/115002801513-Considerations-of-Contribution-Analysis>

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the landscape and horticulture services sector is the top employer with **1,533 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Sedgwick County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Landscape and horticultural services	1,532.5	\$97,557,091
Meat processed from carcasses	1,108.5	\$635,437,109
Veterinary services	697.8	\$74,419,815
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	539.8	\$28,831,607
All other industrial machinery manufacturing	483.8	\$129,883,338
Grain farming	409.6	\$69,494,835
Wholesale trade	388.1	\$92,101,781
Bread and bakery product, except frozen, manufacturing	366.9	\$43,180,376
Real estate	261.0	\$47,454,534
Support activities for agriculture and forestry	214.1	\$44,455,856

The meat processed from carcasses sector directly contributes approximately **\$635.4 million** to the Sedgwick County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
Meat processed from carcasses	1,108.5	\$635,437,109
Flour milling	148.9	\$180,214,587
Bottled and canned soft drinks & water	201.0	\$143,575,684
All other industrial machinery manufacturing	483.8	\$129,883,338
Landscape and horticultural services	1,532.5	\$97,557,091
Wholesale trade	388.1	\$92,101,781
Veterinary services	697.8	\$74,419,815
Animal, except poultry, slaughtering	88.2	\$73,667,554
Lawn and garden equipment manufacturing	159.3	\$73,617,302
Grain farming	409.6	\$69,494,835

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Sedgwick County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	73.1	\$35,727,344.51
Grain farming	409.6	\$69,494,834.90
Vegetable and melon farming	2.1	\$246,331.01
Fruit farming	6.9	\$361,616.16
Tree nut farming	0.7	\$64,488.11
Greenhouse, nursery, and floriculture production	52.0	\$4,603,816.51
Cotton farming	3.3	\$457,945.79
All other crop farming	103.0	\$3,737,472.30
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	539.8	\$28,831,605.91
Dairy cattle and milk production	30.8	\$7,231,632.23
Poultry and egg production	0.5	\$221,016.17
Animal production, except cattle and poultry and eggs	32.1	\$1,859,979.15
Commercial logging	5.3	\$148,645.97
Commercial hunting and trapping	5.1	\$84,830.53
Support activities for agriculture and forestry	214.1	\$44,455,856.32
Flour milling	148.9	\$180,214,584.35
Breakfast cereal manufacturing	0.4	\$215,807.33
Confectionery manufacturing from purchased chocolate	83.9	\$29,801,776.89
Dehydrated food products manufacturing	45.0	\$19,098,020.55
Fluid milk manufacturing	63.2	\$45,157,638.55
Animal, except poultry, slaughtering	88.2	\$73,667,556.76
Meat processed from carcasses	1108.5	\$635,437,133.79
Bread and bakery product, except frozen, manufacturing	366.9	\$43,180,374.15
Frozen cakes and other pastries manufacturing	22.6	\$3,669,218.30
Dry pasta, mixes, and dough manufacturing	18.3	\$10,317,478.18
Tortilla manufacturing	4.2	\$840,814.77
Coffee and tea manufacturing	9.1	\$4,922,522.07
Spice and extract manufacturing	36.3	\$18,331,026.08
All other food manufacturing	25.2	\$8,046,293.26
Bottled and canned soft drinks & water	201.0	\$143,575,683.59
Breweries	67.0	\$25,791,952.13
Distilleries	4.9	\$4,230,202.20
Other leather and allied product manufacturing	3.9	\$336,530.95
Pesticide and other agricultural chemical manufacturing	14.8	\$17,295,019.15
Farm machinery and equipment manufacturing	5.4	\$2,110,306.50
Lawn and garden equipment manufacturing	159.3	\$73,617,301.94
Food product machinery manufacturing	50.8	\$16,050,756.45
All other industrial machinery manufacturing	483.8	\$129,883,331.30
Veterinary services	697.8	\$74,419,815.06
Landscape and horticultural services	1532.5	\$97,557,090.76

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Sedgwick County, the retail sector was omitted.